

PUBLIC HEALTH ACT, 1875,

ANNUAL REPORT

ON

THE HEALTH

OF THE

WHITWORTH URBAN DISTRICT

DURING 1904.

—BY—

ALEXANDER WELSH, M.D., WHITWORTH,

MEDICAL OFFICER OF HEALTH.

Whitworth :

H. O. HOWARD, PRINTER AND STATIONER, MARKET STREET.

THE HEALTH COMMITTEE

Consists of the following Members:

CHAIRMAN—MR. JAMES HOWORTH.

MESSRS. W. T. HAWORTH,

A. W. HERITAGE,

JAMES W. HILL,

RICHARD JACKSON,

J. B. ROBINSON,

JOSEPH RUDMAN,

JAMES WILKINSON.

WHITWORTH URBAN DISTRICT

Medical Officer's Annual Report for the year 1904.

*To the Chairman and Councillors of the Whitworth
Urban District.*

GENTLEMEN :

I have the honour to submit to your consideration the Annual Health Report of the Whitworth Urban District, for the year 1904.

By Section 14 of the duties of the Medical Officer of Health, as defined by the general order of the Local Government Board, it is stated that the annual report of such officer shall comprise :

1st. A summary of action taken during the year for preventing the spread of disease.

2nd. An account of the sanitary state of the district generally, at the end of the year.

3rd. An account of the enquiries made by such officer, as to conditions injurious to health existing in the district, and of the proceedings relating to such conditions, in which he has taken part, or advised, under the Public Health Act, 1875.

4th. An account of the supervision exercised by him, or, on his advice, over places and houses which the sanitary authority have power to regulate, together with the action, if any, taken in regard to offensive trades, to factories, and to workshops.

5th. Tabulated statement of the sickness and mortality within the district, classified according to diseases, ages, and localities.

In addition to the above, Section 132 of the Factory and Workshops Act requires that

“The Medical Officer of Health of every District Council shall, in his annual report to them, report specifically on the administration of this Act in workshops and workplaces, and he shall send a copy of his annual report, or so much of it as deals with this subject, to the Secretary of State.”

The area of the Whitworth Urban District is 6,200 acres, and the estimated population 9,600.

BIRTHS.

During the year 200 births were registered. Males 97, Females 103, giving a birth rate of 20·8 per 1000. The rate for the previous ten years being as under,

1894.....23·3	1899.....22·8
1895.....20·4	1900.....24·9
1896.....21·5	1901.....20·8
1897.....22·7	1902.....22·5
1898.....24·2	1903.....22·5
1904.....20·8	
and	

The following table gives the births in the respective Wards for the undermentioned years :—

Year.	Healey.	Whitworth.	Facit.	Shawforth
1901.....	23.....	75....	59.....	43
1902.....	32.....	87.....	52.....	47
1903.....	42.....	70.....	56.....	50
1904.....	30.....	84.....	45.....	41

The natural increase of the population by excess of births over deaths is 14. The increase last year was 79, and for the year 1902, 71.

DEATHS.

During the year 186 deaths were registered. Males 103, Females 83, giving a death rate of 19·3 per 1000.

The increase in the death rate is due to the mortality from diseases of the Respiratory organs and Zymotic diseases.

The rate for preceding years being as under :—

1894.....	14·3	1899.....	17·4
1895.....	18·4	1900.....	19·6
1896.....	18·0	1901.....	17·2
1897.....	16·7	1902.....	15·2
1898.....	16·9	1903.....	14·3
1904.....		19·3	

The following table also gives the deaths in the respective Wards :—

Year.	Healey.	Whitworth.	Facit.	Shawforth
1901.....	26.....	59.....	33.....	47
1902.....	19.....	69.....	30.....	29
1903.....	20.....	53.....	36.....	30
1904.....	26.....	70.....	47.....	43

Mortality from all causes at the subjoined ages :

Deaths under 1 year.....	32	}	54
„ at 1 and under 5 years.....	22		
„ 5 „ 15 „	7	}	132
„ 15 „ 25 „	15		
„ 25 „ 65 „	74		
„ 65 „ and upwards.....	36		
	<hr/>		
	186		186

INFANT MORTALITY.

By this is meant the proportion of deaths of infants under one year, to the births registered, and is expressed as being so many per 1000 births.

32 deaths under one year were registered which is equal to an infantile mortality of 160 per 1000 births.

4 deaths were registered from Whooping Cough under 7 months, and 3 from Measles under 10 months.

Causes of infantile mortality and the months of occurrence :—

January.	0
February.	Whooping cough, wasting	2
March.	Teething, insufficient vitality (2), wasting, debility.....	5
April.	Whooping cough, bronchitis	2
May.	Measles, premature birth, Coroner's enquiry (2)	4
June.	Measles (2), pneumonia	3
July.	Pneumonia	1
August.	Whooping cough, measles	2
September.	Bronchitis, convulsions	2
October.	Whooping cough, bronchitis, wasting, convulsions	4
November.	Pneumonia.....	1
December.	Pneumonia (3), wasting, insufficient vitality, convulsions	6

Most of the diseases tabulated here may be regarded as preventable. In many cases we may look upon injudicious exposure as the cause of zymotic infection, or chest mischief. On the other hand, much has been written regarding the question of infant feeding as a factor in raising the infantile mortality.

That the high infantile mortality in this country is due in a large measure to improper feeding there can be no doubt, but this is not always the result of maternal ignorance or indifference, as milk is often contaminated by the cow's udder and its subsequent exposure to injurious influences.

The following table gives the number of deaths under one year for the previous ten years:—

1894.....29		1899.....30
1895.....37		1900.....44
1896.....39		1901.....30
1897.....48		1902.....22
1898.....30		1903.....31
	1904.....32	

MORTALITY FROM ALL CAUSES.

DISEASES.	1902	1903	1904
Small-pox	0	0	0
Measles	1	0	9
Scarlet Fever	0	1	2
Whooping Cough	0	1	9
Diphtheria	0	0	2
Enteric Fever	1	1	3
Influenza	1	0	0
Diarrhœa.....	2	0	0
Other Septic diseases.....	1	0	0
Phthisis	14	12	18
Other Tubercular diseases	5	4	7
Cancer	3	13	1
Bronchitis (24), Pneumonia (21), and Pleurisy	29	24	45
Alcoholism	0	1	0
Premature Birth.....	0	0	1
Diseases and Accidents of Parturition	0	1	1
Heart disease	18	6	9
Accidents.....	5	4	5
Suicides	0	2	2
Coroner's Enquiries	0	0	4
Inquests	0	2	3
All other diseases	67	67	65
Total.....	<u>147</u>	<u>139</u>	<u>186</u>

ZYMOTIC DISEASES.

There has been a marked increase in the number of deaths from Zymotic diseases. This is due to the prevalence of Measles, Scarlatina, and Whooping Cough in an epidemic form.

Zymotic diseases are generally spread by the association of the sick with the healthy at school, and the alteration made by the Educational Authority in the withdrawal of what was termed the "Epidemic Grant" has seriously increased the risks incurred.

It is no uncommon experience for the first intimation of an outbreak in a school to be an application for a "Closing Order," on account of the great number of children away through illness. The time for action to stop the spread of disease has passed by, and the application is made to protect the school's financial position. It is also more difficult to exclude from attendance at school, children who are still capable of spreading infectious diseases, and there is the further tendency to press for the earlier return of convalescents.

45 cases of infectious diseases have been notified, viz. : Small-pox, 1 ; Diphtheria, 4 ; Erysipelas, 11 ; Scarlet Fever, 17 ; Enteric Fever, 12.

25 deaths were registered as under :—

Small-pox	0
Measles	9
Scarlatina	2
Whooping Cough	9
Diphtheria.....	2
Diarrhœa	0
Enteric	3
	—
	25

giving a death rate of 2·6 per 1000, and the following table gives the zymotic death-rate for the previous ten years :—

1894.....0·51	1899.....0·5
1895.....1·4	1900.....1·8
1896.....2·2	1901.....0·31
1897.....1·58	1902.....0·41
1898.....1·1	1903.....0·31
1904.....2·6	

SMALL-POX.

One case of small-pox was notified in Whitworth Ward in April.

W.A., aged 61 years, had been from home for weeks.

One member of the family had been to Chorley. Wrote to the M.O.H., and who informed me that he had not received any notification of small-pox since November. Another member of the family had been to Hollingworth on Good Friday.

The source of infection was therefore difficult to trace.

The patient was removed to the Hospital, contacts were vaccinated, the family removed to the Reception Ward, and the house and clothing disinfected. We were fortunately successful in preventing the further spread of the disease.

MEASLES.

We have been unable to ascertain the extent of the epidemic of this disease, as it is not classed as notifiable, and therefore no reliable information as to the exact number of cases could be obtained.

St. Anselm's ; Hallfold ; St. John's, Facit ; Facit Wesleyan and Whitworth National Schools were closed on account of the rapid spread of the disease in the Infants' Department. In the Monthly Report for August I was able to state that "we had not received notification of any infectious disease."

Nine deaths have been registered during the year' as against 1 in 1902, and none in 1901 and 1903.

SCARLATINA.

Seventeen cases have been notified, and 2 deaths registered.

The cases were notified as under during the month of

January ...	7	February ...	1	March	2
April	3	May	1	June.....	1
July.....	0	August	0	September..	0
October ...	0	November..	1	December..	1

And in the Wards:

Healey 3, Whitworth 8, Facit 3, Shawforth 3.

The above statement shows the sporadic or scattered character of the epidemic.

WHOOPING COUGH

Is one of the most infectious and fatal of infantile diseases.

It is especially fatal if contracted in early infancy.

Nine deaths have been registered, all at 2 years and under.

DIPHTHERIA AND MEMBRANOUS CROUP.

Four cases have been notified, and two deaths registered. These cases were notified from September to December, and they all had different water and milk supplies.

The first case was notified on the 3rd of September, at Underbank. Corporation water was used, and the milk came from a farm at Hallfold. The patient, aged 4 years, died the following day.

The next case was notified on the 8th of October, at Millgate. The patient, an adult, aged 28 years, had been under medical attendance from the 1st of October for Pneumonia, and died rather suddenly on the day following notification. Milk from Hopwood Barn, and water from Kettle Well.

The district was again free from the disease until the 14th of December, when we received notification of another case in Tong End. Milk from High Barn Farm, and water from private well. Again, on the 29th of December, a case was notified at Millgate, with milk and water supplies independent of the sources before mentioned in the other cases.

ENTERIC FEVER.

Twelve cases of Enteric Fever have been reported, and 3 deaths registered.

This is a disease which is very liable to be confused with other specific Fevers and febrile conditions, and certainty of diagnosis can be arrived at during life only in a small percentage of cases.

Under ordinary circumstances, the only practically certain criterion of Typhoid is to be found in the

intestinal lesions which are disclosed by post-mortem examination.

Many causes may operate to develop the disease, but the most commonly known are milk and water pollution. In giving the details of the above 12 cases, there is frequently absent corroborating evidence which would justify the certainty or uncertainty of our diagnosis as to the true source of infection. The sequence of occurrence and the localities exclude the idea of common pollution of either the milk or the water.

The first case was reported on the 2nd of February, at Lloyd Street. Complaint, alleged smell of manhole. Second case, Knott Hill, on the 18th of May. Third, Thomas' Street, on the 21st of May. Fourth, Gertrude Street, Shawforth, on the 20th of June. Fifth, also at Shawforth, on the 27th of August, but different milk supply. Sixth, at Whitworth, supposed to have contracted disease from home. Seventh, at Whitworth, but different milk supply. Eighth, at Facit, on November 24th. Ninth, also Facit, but different milk supply. Tenth, Whitworth, on the 13th of December, defective drainage. Eleventh, Whitworth, different milk supply. Twelfth, Whitworth, different milk supply.

The above cases have been supplied with milk from 12 farms, 8 cases have been notified in Whitworth Ward, 1 in Facit Ward, and 3 in Shawforth Ward.

ERYSIPELAS.

Eleven cases have been notified as against 18 for the previous year. One in Healey Ward, 7 in Whitworth Ward, 1 in Facit Ward, and 2 in Shawforth Ward.

PUERPERAL FEVER.

NONE.

DIARRHŒA.

NONE.

PHTHISIS.

Eighteen cases have been registered :—

1st quarter	2	2nd quarter.....	9
3rd quarter.....	6	4th quarter	1
	<hr/>		<hr/>
	8		10

giving a rate of 1·8 per 1,000.

For previous years in Wards :—

	1901.	1902.	1903.	1904.
Healey	3	3	1	2
Whitworth .	7	5	5	9
Facit	4	3	3	6
Shawforth ..	3	3	3	1
	<hr/>	<hr/>	<hr/>	<hr/>
	17	14	12	18

And the following table gives the number of cases for the preceding ten years :—

1894.....13		1899.....13
1895.....14		1900.....13
1896.....7		1901.....17
1897.....10		1902.....14
1858.....19		1903.....12
1904.....18		

Phthisis is now recognised as one of the infectious diseases, and communicable by the Consumptive patient. The modern methods of dealing with the disease are

entirely changed, and are based on the vital importance of fresh air and outdoor exercise.

BRONCHITIS AND PNEUMONIA.

During the year there has been an increase in the number of deaths from diseases of the respiratory organs, as shown by the following table :—

	1901.	1902.	1903.	1904.
Healey	6	2	2	5
Whitworth. .	14	13	14	19
Facit	7	4	5	9
Shawforth ..	11	10	3	12
	—	—	—	—
	38	29	24	45

giving a rate of 4·6 per 1000.

The following table gives the deaths for the previous ten years :—

1894.....	35	1899.....	54
1895.....	45	1900.....	48
1896.....	37	1901.....	38
1897.....	45	1902.....	29
1898.....	25	1903.....	24
1904.....	45		

HEART DISEASE.

Nine deaths have been registered ; an increase of 3 on the previous year, and a decrease of 9 on that of 1902.

	1901.	1902.	1903.	1904.
Healey	4	3	5	4
Whitworth. .	4	8	0	2
Facit	4	5	1	1
Shawforth ..	1	2	0	2
	—	—	—	—
	13	18	6	9

The following table gives the number of deaths for the previous ten years :—

1894..... 5	1899.....13
1895.....11	1900.....11
1896..... 7	1901.....13
1897.....13	1902.....18
1898.....14	1903..... 6
1904.....9	

SEWERAGE AND DRAINAGE.

A considerable amount of work has been carried out during the year, but there is room and necessity for further attention in this class of work. The favourable reports received from the County Authorities respecting our effluent continues to be highly satisfactory.

EXCREMENT DISPOSAL.

This is still disposed of on the "Pail System," and I have to report favourably on the regular manner in which it is attended to. All new property is put upon the Water Carriage system where practicable.

WATER SUPPLY

Is chiefly from the Rochdale Corporation, and, as stated in previous reports, those houses which continue to use the old wells or springs run the usual risk of intermittent pollution, although we have not received notice of any complaint during the year.

HOSPITAL ACCOMMODATION.

One case of small-pox has been treated during the year.

SLAUGHTER-HOUSES

Have been periodically inspected, and found satisfactory.

BAKE-HOUSES

Have also been inspected, and registered on the recommendation of the Sanitary Inspector.

COW-SHEDS AND DAIRIES.

Many of the cow-sheds are improperly constructed, and are not maintained in an efficient sanitary condition. The more recently constructed cowsheds comply with the regulations, but the older ones are deficient in making provision for sufficient lighting, ventilation, cubic space, drainage, cleansing, and water supply. More attention should be given to the condition of the udders and teats. The milkers' hands should also be thoroughly clean, and the milk removed from the byre as early after milking as possible. The more regular inspection of the farms has been the means of effecting considerable improvement.

FACTORY AND WORKSHOPS ACT.

Section 132 of the above Act requires that all workshops shall be under the control of the Sanitary Authority, that the Medical Officer of Health shall report on the administration of the Act, and forward the same to the Secretary of State.

All notices from H.M.I. of Factories as to alleged nuisances or structural alterations required have also received the attention of your inspector.

SPECIAL REPORTS

Under Section 19 of the Local Government Act, 1888, two special reports have been forwarded to the Local Government Board and the County Council, on the epidemic of measles, and the case of small-pox.

MIDWIVES' ACT, 1902.

“After the 1st of April, 1905, no woman will be permitted to use the title of midwife, unless she is a certified midwife and is duly registered ; and after the 1st of April, 1910, no woman will be permitted to attend cases of labour for gain unless she has received a certificate from the Central Midwives' Board.”

Five applications for Certificates have been made from this district up to January 4th, 1905.

GENERAL REMARKS.

General and special inspection of the Sanitary condition of the district has been carried out according to instructions, and the details brought before your Board at the usual monthly meetings. These reports show much valuable work done during the year.

The reports do not compare favourably perhaps with some previous years, but, taken with the state of continued depression from which we have suffered, combined with the increased amount of sickness from infantile diseases, we may not look upon it as altogether unsatisfactory. Under the strain of this depression, and consequent physical suffering, the vitality of the people—old and young alike—has been weakened. There has been diminished power of resistance to the

injurious influences which affect the general health, and there has been a greater susceptibility on the part of the young to contract disease of an infectious nature. The result has been a corresponding increase in the general and zymotic death rate.

In concluding my report, I desire to thank the members of the Council for their courtesy, and the officers for their valuable assistance during the past year.

I am, Gentlemen,

Yours obediently,

ALEXANDER WELSH, M.D.,

Medical Officer of Health.

SANITARY INSPECTOR'S REPORT.

Year ending December 31st, 1904.

*To the Chairman and Members of the Whitworth Urban
District Council.*

GENTLEMEN,

I beg to submit to you my Second Annual Report for the twelve months ending 31st of December, 1904.

The following schedule gives in brief the details of the cases attended to by me during the year :—

Defective bath and lavatory wastes.....	5
„ water closets.....	3
„ traps, inlets, and drains	36
„ downtroughs.....	3
„ waste water closets	2
New ash-pits erected	13
Ash-pits repaired, &c.	34
Ash-pits re-constructed	7
New closets erected (Pail System)	13
New closets erected (Fresh Water)	6
Closets re-constructed	10
Closets converted to the Pail System.....	5
Closets cleaned, &c. ..	15
Closets repaired, &c.	18
Drains flushed	3
Offensive accumulations	8
New drains laid	3
House drains cleaned and repaired.....	11
House drains trapped	2

Slop-stone pipes disconnected from sewer.....	10
House drains, and drains connected to the Council's sewers	6
Filthy yards and premises	2
Shippons lighted and ventilated	4
Floors relaid with flags or cement concrete	3
Overcrowded dwellings	4
Smoke nuisances	1
Yards and passages flagged.....	2
New fire escapes erected	3
Miscellaneous	3
Slaughter-houses visited and inspected	9
Tripe dressing and cleansing premises inspected	2
Factories and workshops inspected (re-overcrowding, &c.)	28
Bake-houses inspected.....	3
Houses and schools disinfected	25
Infectious diseases, Scarlatina.....	17
Enteric Fever	12
Erysipelas	11
Small-pox.....	1
Diphtheria	4
Complaints received	75
Preliminary notices sent out for abatement of nuisances	117
Owners seen personally <i>re</i> nuisances	16

719 loads of nightsoil have been deposited at the Outfall Works.

Nine notices from H.M. Inspector of Nuisances have been received, 3 for the erection of fire escapes, and 6 for insufficient closet accommodation. All have been complied with.

The slaughter-houses and cow-sheds have been systematically inspected, and are kept in a satisfactory condition.

Great improvements have been made in the lighting, ventilation, and sanitary condition of some of the farms, but many require alterations before they are in what may be considered a proper state of efficiency.

The removal of ashes and excreta is very satisfactory.

The Hospital is in thorough order, and kept in a very cleanly condition.

One proposal to occupy a building as a cow-shed has been made, which was refused, until certain structural alterations are complied with.

One bake-house has been certified under the Factory and Workshops Act, 1901.

A case of small-pox occurred on the 12th of April. The patient was at once removed to the Hospital, and the rest of the family placed in quarantine. The bedding was destroyed, and the house thoroughly fumigated. By the prompt measures taken, the spread of the disease was arrested.

In conclusion, I again wish to draw the attention of the Council to my last year's report *re* the supplying of lime and the loaning of brushes free of cost for lime-washing, which I am sure would be beneficial to the health of the people in the poorer parts of the district.

I am, Gentlemen,

Your obedient servant,

JNO. J. CORDINGLEY, A.R.S.I., R.P.C.,

Inspector of Nuisances.

TABLE I.

WHITWORTH URBAN DISTRICT.

Vital Statistics of Whole District during 1904 and Previous Years.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTER IN THE DISTRICT.				TOTAL DEATHS IN PUBLIC INSTITU- TIONS IN THE DISTRICT.	Deaths of Non- residents registered in Public Institu- tions in the District. 10	Deaths of Residents registered in Public Institu- tions beyond the District. 11	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number.	Rate *	Under 1 Year of Age		At all Ages.					Number.	Rate. *
				Number.	Rate per 1,000 Births registered	Number.	Rate *					
1	2	3	4	5	6	7	8	9			12	13
1894.	9,766	228	23·3	29	127·1	140	14·3					
1895.	10,100	207	20·4	37	178·7	186	18·4					
1896.	10,100	218	21·5	39	178·8	182	18·0					
1897.	10,100	230	22·7	48	208·6	179	16·7					
1898.	10,100	245	24·2	30	122·4	171	16·7					
1899.	10,150	232	22·8	30	129·3	177	17·4					
1900.	10,150	253	24·9	44	173·9	200	19·6					
1901.	9,578	200	20·1	30	150·0	165	17·2					
1902.	9,649	218	22·5	22	100·9	147	15·2					
1903.	9,688	218	22·5	31	142·2	139	14·3					
Averages for years 1894-1903.	9938·1	224·9	22·5	34·0	151·2	168·6	16·7					
1904.	9,600	200	20·8	32	160·0	186	19·3					

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres
(exclusive of area
covered by water). } 6,200.

Total population at all ages 9,578.

Number of inhabited houses, 2,325.

Average number of persons per house, 4.1.

} At Census of
1901.

TABLE II.

WHITWORTH URBAN DISTRICT.

Vital Statistics of separate Localities in 1904 and previous years.

NAMES OF LOCALITIES.		HEALEY WARD.				WHITWORTH WARD.				FACIT WARD.				SHAWFORTH WARD.			
YEAR.		Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births regis- tered.	Deaths at all Ages.	Deaths under 1 year.
1894	...																
1895	...																
1896	...																
1897	...																
1898	...																
1899	...																
1900	...																
1901	...	1690	23	26	2	3432	75	59	13	2705	59	33	4	1751	43	47	11
1902	...	1703	32	19	2	3450	87	69	10	2727	52	30	7	1769	47	29	3
1903	...	1714	42	20	3	3458	70	53	13	2737	56	36	10	1779	50	30	5
1904	...	1718	30	26	4	3472	84	70	12	2737	45	47	5	1779	41	43	11

TABLE III.

WHITWORTH URBAN DISTRICT.

Cases of Infectious Disease notified during the Year 1904.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							TOTAL CASES NOTIFIED IN EACH LOCALITY.				NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.			
	At all Ages.	At Ages—Years.						Healey	Whitworth.	Facit.	Shawforth.	Healey.	Whitworth.	Facit.	Shawforth.
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards								
Small-pox	1								1						
Cholera															
Diphtheria	4								2	2					
Membranous croup ...															
Erysipelas	11							1	6	2	2				
Scarlet fever	17							3	8	3	3				
Typhus fever															
Enteric fever	12								8	1	3				
Relapsing fever															
Continued fever															
Puerperal fever															
Plague															
Totals	45							4	25	8	8				

TABLE IV.

WHITWORTH URBAN DISTRICT.

Causes of, and Ages at, Death during Year 1904.

CAUSES OF DEATH. 1	DEATHS IN OR BELONGING TO WHOLE DISTRICT AT SUBJOINED AGES.							DEATHS IN OR BELONGING TO LOCALITIES (AT ALL AGES.)							TOTAL DEATHS IN PUBLIC INSTITU- TIONS IN THE DISTRICT
	All Ages. 2	Under 1 year. 3	1 and under 5 4	5 and under 15 5	15 and under 25 6	25 and under 65 7	65 and up- wards. 8	Healey 9	Whit- worth 10	Facit 11	Shaw- forth 12	13	14	15	
Small-pox															
Measles	9	4	4	1				3	3	2	1				
Scarlet fever	2		1	1						2					
Whooping-cough	9	4	5					1	4	3	1				
Diphtheria and membra- nous croup	2		1		1				1	1					
Croup															
Typhus															
Fever { Enteric	3				1	2			2		1				
Other continued															
Epidemic Influenza															
Cholera															
Plague															
Diarrhoea															
Enteritis															
Puerperal fever															
Erysipelas															
Other septic diseases															
Phthisis... ..	18			1	2	15		2	9	6	1				
Other tubercular di- seases	7		2		4	1			4	1	2				
Cancer, malignant di- sease	1					1				1					
Bronchitis	24	3	2			12	7	4	7	5	8				
Pneumonia	21	6	5	1	3	4	2	1	12	4	4				
Pleurisy															
Other diseases of Res- piratory organs															
Alcoholism } Cirrhosis of liver }	...														
Venereal diseases															
Premature birth	1	1									1				
Diseases and accidents of parturition	1					1				1					
Heart disease	9			1	2	4	2	4	2	1	2				
Accidents	5					5			1	4					
Suicides... ..	2					2			1	1					
Coroner's enquiries	4	2				1	1	2	1		1				
Inquests	3					3			3						
All other causes	65	12	2	2	2	23	24	9	20	15	21				
All causes	186	32	22	7	15	74	36	26	70	47	43				

